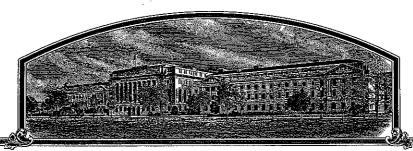
No.



# THIR UNITED SHATES OF AMERICA

Tolden's Toundation Seeds I. I. C.

MOCCOS, THERE HAS BEEN PRESENTED TO THE

### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT. THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY LEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC EPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE SHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR TING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN, FIELD

'LH326'

In Vestimonn Morreof, I have hereunto set my hand and caused the seal of the Plant Hariety Protection Office to be affixed at the City of Washington, D.C. this twenty-ninth day of April, in the year two thousand and eight.

Allaste

Benzon

Commissioner Plant Variety Protection Office Agricultural Marketing Service Edward 7: Schafes

Sciculture

REPRODUCE LOCALLY. Include form number and date on all	eproductions		Form Approved - OMB No. 0581-0055		
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE		The following statements are made in the Peperwork Reduction Act (PRA) o	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Peperwork Reduction Act (PRA) of 1995.		
APPLICATION FOR PLANT VARIETY PRO	OTECTION CERTIFICATE	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).			
1. NAME OF OWNER		TEMPORARY DESIGNATION OR EXPERIMENTAL NAME	3. VARIETY NAME		
Holden's Foundation Seeds L.L.C.		None	LH326		
4. ADDRESS (Street and No., or R.F.D. No., City, State, and	ZIP Code, and Country)	5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY		
8350 Minnegan Road		(815) 758-9281	PVPO NUMBER		
Waterman, IL 60556		6. FAX (include area code)	<b>200600016</b>		
U.S.A.		(815) 758-3117	FILING DATE		
<ol> <li>IF THE OWNER NAMED IS NOT A "PERSON", GIVE FOR ORGANIZATION (corporation, partnership, association, etc.</li> </ol>	4 OF 8. IF INCORPORATED, GIVE STATE OF INCORPORATION	9. DATE OF INCORPORATION -	Oct. 24,2005		
Corporation	Delaware	August 27, 1999	00,29,2003		
10, NAME AND ADDRESS OF OWNER REPRESENTATIVE	TO SERVE IN THIS APPLICATION. (F	irst person listed will receive all papers)	F FILING AND EXAMINATION FEES:		
·			E : 3652.00 + 730.00		
Timothy R. Kain	Mich	ael J. Roth	R DATE 10/24/05 + 1/10/06		
8350 Minnegan Road		aei J. Rom N. Lindbergh Blvd.	E CERTIFICATION FEE:		
Waterman, IL 60556		ouis, MO	1: 768.00		
			v. , ,		
	-		E DATE 4/15/08		
11. TELEPHONE (Include area code) (815) 758-9281	12. FAX (Include area code) (815) 758-3117	13. E-MAIL trkain@monsanto.com	14. CROP KIND (Common Name)  Corn, Field		
15. GENUS AND SPECIES NAME OF CROP		16. FAMILY NAME (Botanical)	17. IS THE VARIETY A FIRST GENERATION		
•			HYBRID?		
Zea mays		Graminae	☐ YES X NO		
<ol> <li>CHECK APPROPRIATE BOX FOR EACH ATTACHMENT S (Follow instructions on reverse)</li> </ol>	UBMITTED	19. DOES THE OWNER SPECIFY THAT S CERTIFIED SEED? See Section 83	SEED OF THIS VARIETY BE SOLD AS A CLASS OF 8(a) of the Plant Variety Protection Act)		
a. X Exhibit A. Origin and Breeding History of the Variet	у	☐ YES (If "yes", answer items 20	0 and 21 below) X <sub>1 NO</sub> (If "no", go to item 22)		
b. X Exhibit B. Statement of Distinctness		20. DOES THE OWNER SPECIFY THAT S VARIETY BE LIMITED AS TO NUMBER			
c. X Exhibit C. Objective Description of Variety	.·	VANIETT BE EINITED AS TO NOMBER	, or chadge?		
<ul> <li>d.                Exhibit D. Additional Description of the Variety (Op</li> <li>e.              X Exhibit E. Statement of the Basis of the Owner's Opening to the Company of the Compan</li></ul>			DUNDATION    REGISTERED    CERTIFIED		
f. X Voucher Sample (2,500 viable untreated seeds or, verification that tissue culture will be deposited and	or tuber propagated varieties.	21. DOES THE OWNER SPECIFY THAT SEED OF THIS YES. NO VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?  IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.			
repository) g. X Filing and Exemination Fee (\$3,652), made payable	to *Transpura of the their d	FOUNDATION REGISTERS			
States" (Mail to the Plant Variety Protection Office)	TO Treasurer of the United	(If additional explanation is necessary, please use the space indicated on the reverse.)			
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATE FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRAN- OR	RIAL) OR A HYBRID PRODUCED SFERRED, OR USED IN THE U.S.	23. IS THE VARIETY OR ANY COMPONEN PROPERTY RIGHT (PLANT BREEDER	NT OF THE VARIETY PROTECTED BY INTELLECTUAL S'S RIGHT OR PATENT)?		
OTHER COUNTRIES?  X YES	NO	☐ YES	X NO		
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE USE		IF YES, PLEASE GIVE COUNTRY, DAT REFERENCE NUMBER. (Please use sp	E OF FILING OR ISSUANCE AND ASSIGNED pace indicated on reverse.)		
FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Ple	ase use space indicated on reverse.)				
<ol> <li>The owners declare that a viable sample of basic seed of it for a tuber propagated variety a tissue culture will be depos</li> </ol>	ne variety has been furnished with application and maintaine	ation and will be replenished upon request in ac d for the duration of the certificate.	ccordance with such regulations as may be applicable, or		
The undersigned owner(s) is(are) the owner of this sexually and is entitled to protection under the provisions of Section	reproduced or tuber propagated plant va 42 of the Plant Variety Protection Act	ariety, and believe(s) that the variety is new, dis	stinct, uniform, and stablé as required in Section 42,		
Owner(s) is(are) informed that false representation herein	an jeopardize protection and result in pe	naities.			
SIGNATURE OF OWNER THINKS P. C.	0	SIGNATURE OF OWNER			
NAME (Please print or type)		NAME (Glassa suist aut)			
Timothy R. Kain		NAME (Please print or type)			
CAPACITY OR TITLE	DATE ,	CADACITY OF TITLE	0.175		
Patent Scientist	10/21/2	CAPACITY OR TITLE	DATE		
ST-470 (02-10-2003) designed by the Plant Variety Protection Office using Won	2000. Replaces former versions of ST-470. while	ch are obsolete.	(See reverse for instructions and information collection burden statement)		
<del>_</del>	-1	·	and a second secon		

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

#### **Plant Variety Protection Office** Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

#### ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- the details of subsequent stages of selection and multiplication:
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
  - (1) identify these varieties and state all differences objectively;
  - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97,103).
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

Sold in U.S. - December 2004

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089. http://www.ams.usda.gov/lsg/seed.htm

According to the Peperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

ST-470 (02-10-2003) designed by the Plant Variety Protection Office with Word 2000. Replaces former versions of ST-470, which are obsolete.

#### **EXHIBIT A**

#### Origin and Breeding History LH326

LH326 was developed from the single cross of LH176 x LH283 by selfing and using the double haploid system of plant breeding. Yield, stalk quality, root quality, disease tolerance, late plant greenness, late plant intactness, ear retention, pollen shedding ability, silking ability and corn borer tolerance were the criteria used to determine the rows from which ears were selected during the development of LH326.

LH176 and LH283 the progenitors of LH326, are both proprietary field corn inbred lines of Holden's Foundation Seeds, L.L.C., of Williamsburg, Iowa.

Summer 2000	The inbred line LH176 (a proprietary Holden's inbred) was crossed to the inbred line LH283 (a proprietary Holden's inbred) and induced in lowa Field/Row 161.
Winter 2000-2001	The induced seed was grown and doubled in nursery row 93 in Hawaii.
Summer 2001	S6 ears were grown ear-to-row and self-pollinated in nursery range/row 68751 in Hawaii.
Summer 2002	S7 ears were grown ear-to-row and self-pollinated in nursery row 52124 in lowa.
Summer 2003	S8 ears were grown ear-to-row in Iowa in nursery row 37310-37319.
Summer 2004	S9 ears were grown ear-to-row and self-pollinated and final selection made in lowa nursery row/field Upper South. Line coded LH326.

#### Statement of Stability and Uniformity

LH326 has shown uniformity and stability for all traits described in Exhibit C. It has been self-pollinated, doubled and induced and ear-rowed a sufficient number of generations, with careful attention to uniformity of plant type to ensure homozygosity and phenotypic stability. The originating plant breeder, has observed LH326 all four generations it has been increased.

#### Statement of Variants

The line is stable, uniform and no variant traits have been observed or are anticipated in LH326.

# EXHIBIT B (revised)

#### Statement of Distinctness

Holden's Foundation Seeds L.L.C. believes that Corn Variety LH326 is most similar to Corn Variety LH176, an inbred developed by Holden's Foundation Seeds L.L.C.

Corn Variety LH326 differ from Corn Variety LH176 at the following traits:

Trait	LH326	LH176
Glume Bands	Present	Absent

Corn variety LH326 has glume bands while comparative corn variety does not have glume bands.

### Description of Experimental Design

The corn varieties LH326, LH176 and CM105 were grown at the Waterman, IL observation nursery in years 2004-2005. The varieties were planted in 2 row plots with 15 plants per row in each of the three years. Trait data were collected on 10 random representative plants for most traits from each 2 row plot. Data on qualitative traits are usually collected on 10 plants from each 2 row plot. For Exhibit C all data were pooled and reported as means across the years for subject variety and the standard variety with standard deviation. The varieties are randomly planted in a 4.5 acre observation nursery which is located within a larger 18 acre field. Besides the observation nursery, this field consists of a research seed increase nursery and an IP seed inventory nursery. The location of each of these individual nurseries is rotated each year to a different location within the 18 acre field. Therefore subject inbreds are not planted adjacent to comparative or standard varieties and may be located in different areas of the larger field each year, therefore being influenced by spacial differences within the field. Growing conditions within the field are not uniform as there are some slight topographical variations such as lower areas which may accumulate and retain water or higher areas which are usually drier. The field is tiled and therefore a variety maybe planted close to a tile line while a comparative variety maybe planted further away and in a low spot within the field. Temporal varieties can exist as weather conditions from year to year can vary as well as planting dates can vary from year to year based on weather conditions. Weather conditions each year can vary the maturity rate of the varieties due to either favorable or unfavorable growing conditions.

Trait variability is not observed for each variety within its own test plot-plants are usually uniform and data are collected on the "most" representative plants- variability occurs due to spacial location of the test plot for that variety from year to year and to the temporal variation of weather conditions from year to year during the 2-3 years data are collected.

## Waterman Research Station Weather Data 2004-2005

Date	Average Precip. (mm)	Ave. Monthly Temp – Max. (F°)	Ave. Monthly Temp-Min (F°)	Ave. Monthly Rel. Humid Max (%)	Ave. Monthly Rel. Humid – Min (%)
June 2004	3.1	76.4	56.8	92.8	50.6
July 2004	3.2	79.3	59.2	94.9	55.9
August 2004	3.0	75.4	54.7	95.8	55.3
Sept. 2004	0.5	78.1	51.6	95.0	43.1
June 2005	0.9	84.7	61.3	89.8	41.7
July 2005	2.0	84.9	61.7	93.4	44.7
August 2005	2.5	82.6	60.4	94.9	50.0
Sept 2005	1.8	79.9	55.0	94.3	44.3

#### United States Department of Agriculture, Agricultural Marketing Service Science and Technology, Plant Variety Protection Office National Agricultural Library Building, Room 400 Beltsville, MD 20705-2351

OBJECTIVE DESCRIPTION OF VARIETY CORN (Zea mays L.)

	CORN (Zea mays	) la. j				
Name of Applicant(s)		Variety Seed Source	,	Variety Nar	me or Temporary D	esignation
Holden's Foundation Seed L.L.C.					LH326	
Address (Street & No., or R.F.D. No., City, State, Zip Code and Country)				FOR OFFI	CIAL USE F	VPO Number
8350 Minnegan Road, Waterman, IL 60556				20	006000	016
Place the appropriate number that describes the varietal characters typical of th necessary. Completeness should be striven for to establish an adequate variet	nis inbred variety in y description.	the spaces below. Rig	ght justify w	vhole numb	ers by adding lead	ing zeroes if
02=Medium Green 07=Yellow 03=Dark Green 08=Yellow-Orange 04=Very Dark Green 09=Salmon	color choices; descri 11=Pink 12=Light Red 13=Cherry Red 14=Red 15=Red & White	ibe #25 and #26 in Cor 16=Pale l 17=Purpl 18=Color 19=White 20=White	Purple le less	ection):	21=Buff 22=Tan 23=Brown 24=Bronze 25=Variegated (D 26=Other (Desc	
Family Members B14 CM105, A632, B64, B68 B37 B37, B76, H84 B73 N192, A679, B73, NC268 C103 M017, Va102, Va35, A682 Oh43 A619, MS71, H99, Va26 White	w Dent (Unrelated): Co109, ND246, Oh7, T232 W117, W153R W182BN			Sweet Cor C13, Popcorn: SG1 Pipecorn:		HP7211
TYPE: (describe intermediate types in Comments section)			Standard	Inbred Nar	me CM105	
2 1=Sweet 2=Dent 3=Flint 4=Flour 5=Pop 6=Ornamental 7=Pipecorn	n		2 Type			
2. REGION WHERE DEVELOPED IN THE U.S.A.:	· · ,,,,,		Standard Seed Source			
2 1=Northwest 2=North central 3=Northeast 4=Southeast 5=Sour	th central 6=South	hwest 7=Other	2 Region			
3. MATURITY (In Region Best Adaptability; show Heat Unit formula in "Commer DAYS HEAT UNITS  8 0 1 5 0 5. 5 From emergence to 50% of plants in silk  7 9 1 4 8 0. 0 From emergence to 50% of plants in pollen  From 10% to 90% pollen shed  From 50% silk to optimum edible quality	nts" section):			YS 88 64 — —	HEAT UNITS 1400.5 1292.5	
From 50% silk to harvest at 25% moisture					·	
4. PLANT: Standa	ard Deviation	Sample Size	Me	ean	Standard Deviatio	n Sample Size
2 1 2. 6 cm Plant Height (to tassel tip) 17.4		30	1	60.5	24.6	30
8 3.7 cm Ear Height (to base of top ear node) 10.7		30	4	49.4	12.0	30
1 4. 3 cm Length of Top Ear Internode 1.6		30		11.7	2.0	30
Average Number of Tillers	***		_			
1.0 Average Number of Ears per Stalk 0.1		30		1.0	0.1	15
2 Anthocyanin of Brace Roots: 1=Absent 2=Faint 3=Moderate 4=	=Dark		2			
Application Variety Data	Page 1		Standard	Inbred Dat	ta	

						20060	0016
_	ation Varie	ety Data	Page 2		Standard Inbred	l Data	
5. LE	AF:		Standard Deviation	Sample Size	Mean	Standard Deviation	Sample Size
	8.6	cm Width of Ear Node Leaf	1.1	30	7. 1	0.7	30
	7 7. 9	cm Length of Ear Node Leaf	5.7	30	6 6. 7	9.6	30
	6.0	Number of leaves above top ear	0.7	30	5. 7	0.6	15
	27.4	degrees Leaf Angle (measure from 2nd leaf above ear at anthesis to	5.1 stalk above leaf)	30	4 7.8	7.0	30
	02	Leaf Color (Munsell code 5 GY 4/8)			0 2 (Munsell	code 5 GY 4/8)	
	1	Leaf Sheath Pubescence (Rate on scale from 1	=none to 9=like peach fuzz)		2		
	4	Marginal Waves (Rate on scale from 1=none to	9=many)		6		
	5	Longitudinal Creases (Rate on scale from 1=nor	ne to 9=many)		5		
6. TAS	SSEL:		Standard Deviation	Sample Size	Mean	Standard Deviation	Sample Size
	3.3	Number of Primary Lateral Branches	1.2	30	5. 3	1.2	30
	17.4	Branch Angle from Central Spike	6.3	30	3 3.2	9.0	30
	4 1. 2	cm Tassel Length (from top leaf collar to tassel tip)	3.2	30	3 4.4	2.6	30
	5.6	Pollen Shed (Rate on scale from 0=male sterile	to 9=heavy shed)		6.2		
	11 .	Anther Color (Munsell code 2.5 R 7/6)	,,		0 7 (Muns	ell code 2.5 Y 8/10)	
		Glume Color (Munsell code 5 RP 5/6)			1 2 (Munse	ell code 2.5 R 5/8)	
		Bar Glumes (Glume Bands): 1=Absent 2=Present	t		1		
7a. EA	R (Unhusi	ked Data):					
	05 Silk	Color (3 days after emergence) (Munsell code 2.5	5 GY 8/6)		0 7 (Munse	ell code 2.5 Y 8/10)	
	0 2 Fre	sh Husk Color (25 days after 50% silking) (Munsel	Il code 5 GY 4/8)			ell code 5 GY 4/8)	
	21 Dry	Husk Color (65 days after 50% Silking) (Munsell c	ode 2.5 Y 8/4)		2 1 (Muns	eli code 2.5 Y 8/4)	
	1 Posi	tion of Ear at Dry Husk Stage: 1=Upright 2=Horizo	ontal 3=Pendent		1		
	7 Husi	c Tightness (Rate on scale from 1=very loose to 9	=very tight)		9		
tip	1 Husk b) 4=Very	Extension (at harvest): 1=Short (ears exposed) 2 Long (>10 cm)	?=Medium (<8 cm) 3=Long (8	3-10 cm beyond ear	1		
7b. EAI	R (Husked	Ear Data):	Standard Deviation	Sample Size	Mean	Standard Deviation	Sample Size
	1 5. 1	cm Ear Length	1.0	30	1 4.0	1.6	. 30
	4 5. 2	mm Ear Diameter at mid-point	1.3	30	3 8.0	1.4	15
1 .	13.6 gm	Ear Weight	3.4	30	7 3.2	1.9	15
	17.5	Number of Kernel Rows	1.2	30	1 3.9	0.9	15
	2	Kernel Rows: 1=Indistinct 2=Distinct			2		
	1	Row Alignment: 1=Straight 2=Slightly Curved 3=5	Spiral		1		
	6.4 c	m Shank Length	1.9	30	6.8	2.0	15
	2	Ear Taper: 1=Slight 2=Average 3=Extreme			2		
	ion Variety	·····			Standard Inbred	Data	
Note: Us	e chart on	first page to choose color codes for color traits.					

Application Variety Data	Page 3		Standard Inbred	Data	
8. KERNEL (Dried):	Standard Deviation	Sample Size	Mean	Standard Deviation	Sample Size
11 .4 mm Kernel Length	0.5	30	0 9.2	1.0	15
7 .8 mm Kernel Width	0.7	30	0 8.2	0.6	15
5 .1 mm Kernel Thickness	0.6	30	0 5.1	1.2	15
48.9 % Round Kernels (Shape Grade)	0.8	500g	56.8	2.6	500g
Aleurone Color Pattern: 1=Homozygous 2=Segrega	ating (describe)		1		·
1 9 Aleurone Color (Munsell code Lighter than 2.5 Y 9/2	r)		1 9 (Munse	ell code Lighter Than 2.5	Y 9/2)
0 7 Hard Endosperm Color (Munsell code 2.5 Y 8/8)			07 (Munse	ell code 2.5 Y 8/8)	•
3 Endosperm Type: 1=Sweet (su1) 2=Extra Sweet (s 5=Waxy Starch 6=High Protein 7=High Lysine 10=Other	sh2) 3=Normal Starch 8=Super Sweet (se	4=High Amylose Starch e) 9=High Oil	0 3	,	
18.9 gm Weight per 100 Kernels (unsized sample)	1.6	2400 seeds	22.5	2.6	2000 seeds
9. COB:	Standard Deviation	Sample Size	Mean	Standard Deviation	Sample Size
2 6 .2 mm Cob Diameter at mid-point	1.2	30	2 6.2	1.3	15
1 4 Cob Color (Munsell code 5 R 4/10)			1 4 (Muns	ell code 5 R 4/10)	
A. Leaf Blights, Wilts, and Local Infection Diseases  6 Anthracnose Leaf Blight (Colletotrichum graminicola) 7 Common Rust (Puccinia sorghi) Common Smut (Ustilago maydis) 6 Eyespot (Kabatiella zeae) 5 Goss's Wilt (Clavibacter michiganense spp. nebraskense) 3 Gray Leaf Spot (Cercospora zeae-maydis) 8 Helminthosporium Leaf Spot (Bipolaris zeicola)	Race 2 Race 1 Race O		3 Northern Leaf 6 Southern Leaf Southern Rus 4 Stewart's Will Other (Specif  Corn Lethal N Head Smut Maize Chloric Maize Chloric Maize Chloric Maize Dwarf   Sorghum Dov Other (Specif  Anthracnose   Diplodia Stalk Fusarium Stalk Fusarium Stalk Gibberella Sta Other (Specif  Aspergillus Ea Diplodia Ear F Fusarium Ear Gibberella Ear Gibberella Ear	st iuit  ot ium Leaf Spot	Race 1 Race O
Application Variety Data			Standard Inbred D	ata	
Note: Use chart on first page to choose color codes for color traits.					

Application Variety Data	Page 4		Standard Inbred Data
<ol> <li>INSECT RESISTANCE (Rate from 1 (most susceptible) to 9 (most releave blank if not tested):</li> </ol>	resistant); Standard Deviation	Sample Size	Standard Deviation Sample Size
Banks Grass Mite (Oligonychus pratensis)			Banks Grass Mite
Corn Earworm (Helicoverpa zea)  Leaf-Feeding Silk Feeding: mg larval wt.			Corn Earworm Leaf Feeding
Silk Feeding : mg larval wt. Ear Damage		<del></del>	Ear Damage
Corn Leaf Aphid (Rhopalosiphum maidis) Corn Sap Beetle (Carpophilus dimidiatus)			Corn Leaf Aphid Corn Sap Beetle
European Corn Borer (Ostrinia nubilalis)  1st Generation (Typically Whorl Leaf Feeding)  2nd Generation (Typically Leaf Sheath-Collar Feeding)  Stalk Tunneling: cm tunneled/plant			European Corn Borer 1st Generation 2nd Generation
Fall Armyworm ( <i>Spodoptera frugiperda</i> ) Leaf-Feeding Silk-Feeding : mg larval wt.		·	Fall Armyworm Leaf Feeding
Maize Weevil (Sitophilus zeamaize) Northern Rootworm (Diabrotica barberi) Southern Rootworm (Diabrotica undecimpunctata)			Maize Weevil Northern Rootworm Southern Rootworm
Southwestern Corn Borer (Diatraea grandiosella) Leaf Feeding Stalk Tunneling: cm tunneled/plant			Southwestern Corn Borer Leaf Feeding
Two-spotted Spider Mite (Tetranychus urticae) Western Rootworm (Diabrotica virgifera virgifera) Other (Specify)			Two-spotted Spider Mite Western Rootworm Other (Specify)
12. AGRONOMIC TRAITS:			
7 Stay Green (at 65 days after anthesis) (Rate on a scale from	1 1=worst to 9=excellent.)		1 Stay Green
0 0 . 0 % Dropped Ears (at 65 days after anthesis)	,		0 0 . 1 % Dropped ears
0 0 .0 % Pre-anthesis Brittle Snapping			0 0 . 0 % Pre-anthesis Brittle Snapping
0 0. 0 % Pre-anthesis Root Lodging		ļ	0 0 . 0 % Pre-anthesis Root Lodging
0 0.0 % Post-anthesis Root Lodging (at 65 days after anthesis)		•	0 0 . 0 % Post-anthesis Root Lodging
Kg/ha Yield of Inbred Per Se (at 12-13% grain moisture)			Yield
13. MOLECULAR MARKERS: (0=data unavailable; 1=data available but	not supplied; 2=data supplied	d)	
1 isozymes 0 RFLP's 0 RAPD's	Other (Specify)		
REFERENCES:			
Butler, D.R. 1954. A System for the Classification of Corn Inbred Lines. Emerson, R.A., G.W. Beadle, and A.C. Fraser. 1935. A Summary of Linl Farr, D.F., G.F. Bills, G.P. Chamuris, A.Y. Rossman. 1989. Fungi on Pla Inglett, G.E. (Ed.) 1970. Corn: Culture, Processing, Products. Avi Publisi Jugenheimer, R.W. 1976. Corn: Improvement, Seed Production, and Us McGee, D.C. 1988. Maize Diseases. APS Press, St. Paul, MN. 150 pp. Munsell Color Chart for Plant Tissues. Macbeth. P.O. Box 230. Newburg The Mutants of Maize. 1968. Crop Science Society of America. Madison Shurtleff, M.C. 1980. Compendium of Corn Diseases. APS Press, St. Pa Sprague, G.F., and J.W. Dudley (Editors). 1988. Corn and Corn Improve Stringfield, G.H. Maize Inbred Lines of Ohio. Ohio A.E.S., Bul. 831. 1958 U.S. Department of Agriculture. 1936, 1937. Yearbook.	kage Studies in Maize. Corne unt and Plant Products in the I hing Company, Westport, CT. es. John Wiley & Sons, New ph, N.Y. 12551-0230 h, WI. eurl, MN. 105 pp. ement. Third Edition, Agronomer	I A.E.S., Mem. 180. Jnited States. The A York.	merican Phytopathological Society, St. Paul, MN.
COMMENTS (e.g. state how heat units were calculated, standard inbred	seed source, and/or where da	ata was collected. C	ontinue in Exhibit D):
Heat Unit Calculation: GDU = <u>Daily Max Temp (&lt;=86°F) + Daily</u> 2	<u>/ Min Temp (&gt;=50°F)</u> - 50°	F	
Supplemental data provided for pollen shed, ear weight data and 2006 seed inventory data. Supplemental data paramala size from 2007 seed inventory appropriate and produced inventory appropriate produced inventory.	., % round kernels and	d weight per 10 ariety LH326 fo	0 kernels from 2006 production parent test r quantitative traits that required a larger

REPRODUCE LOCALLY. Include form muntber and edition date on a	l reproductions. F	FORM APPROVED - OMB No. 0581-0055
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE  EXHIBIT E  STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to det certificate is to be issued (7 U.S.C. 2 confidential until the certificate is issued.	421). This information is held
1. NAME OF APPLICANT(S)  Holden's Foundation Seeds L.L.C.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
		LH326
4. ADDRESS (Sueet day vio., en B.F.O. Ma, Chy. State, and ZiP. and Country)	5: TELEPHONE (timbade area code)	5: FAX (Include áries code)
8350 Minnegan Road	(815) 758-9281	(815) 758-3117
Waterman, IL 60556 U.S.A.	7. PVPO NUMBER	200600016
9. Is the applicant (individual or company) a U.S. National or a U.S.	based company? If no, give name of c	country X YES NO
10. Is the applicant the original owner? X YES NO	If no, please answer <u>one</u> of the fol	llowing:
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a U.S. Nation	al(s)?
YES NO	If no, give name of country	
b. If the original rights to variety were owned by a company(les	), is (are) the original owner(s) a U.S. ba	sed company?
" L YES NO	If no, give name of country	•
11. Additional explanation on ownership (If needed, use the reverse	for extra space):	
Corn Variety LH326 was originated and deformation Seeds, L.L.C. By agreement be breeder, all rights to any invention, discove Foundation Seeds, L.L.C. No rights to such the breeder.	etween Holden's Foundation Sec ry or development are assigned	eds, L.L.C. and the to Holden's
PLEASE NOTE:		
Plant variety protection can only be afforded to the owners (not licen	sees) who meet the following criteria:	
If the rights to the variety are owned by the original breeder, that practional of a country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals.	person must be a U.S. national, national of the U.S. for the same genus and spec	of a UPOV member country, or ies.
<ol><li>If the rights to the variety are owned by the company which emplo nationals of a UPOV member country, or owned by nationals of a genus and species.</li></ol>		
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must n	neet one of the above criteria.
The original breeder/owner may be the individual or company who descriptions $\underbrace{\text{Act}}_{\text{c}}$ for definitions.	lirected the final breeding. See Section 4	41(a)(2) of the Plant Variety Protection
According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor	r, and a person is not required to respond to a collection	on of Information unless it displays a valid OMB

control number. The valid OMB control number for this information collection is 0581-0055. The lime required to complete this information collection is estimated to average 6 minutes per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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#### U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY **PLANT VARIETY PROTECTION OFFICE** BELTSVILLE, MD 20705

**EXHIBIT F** 

NAME OF OWNER (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	TEMPORARY OR EXPERIMENTAL DESIGNATION
Holden's Foundation Seeds LLC	8350 Minnegan Road, Waterman, IL 60556 USA	
		VARIETY NAME LH326
NAME OF OWNER REPRESENTATIVE (S) Timothy R. Kain	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 8350 Minnegan Road, Waterman, IL 60556 USA	FOR OFFICIAL USE ONLY
	8350 Minnegan Road, Waterman, IL 60556 USA	200600016

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.